




PRESSURE SENSITIVE SCROLLBAR FEATURE

Patent Number:  WO9718508

Publication date: 1997-05-22

Inventor(s): ALLEN TIMOTHY P; GILLESPIE DAVID; FERRUCCI AARON T

Applicant(s): SYNAPTICS INC (US)

Requested Patent:  EP0861462 (WO9718508) 

Application Number: WO1996US17862 19961106

Priority Number(s): US19950558114 19951113

IPC Classification: G06F3/033

EC Classification: G06F3/033D2, G06F3/033A1S2

Equivalents: CN1202254, JP11511580T

Cited Documents: EP0394614

Abstract

A proximity sensor system includes a sensor matrix array having a characteristic capacitance on horizontal and vertical conductors connected to sensor pads. The capacitance changes as a function of the proximity of an object to the sensor matrix. The change in capacitance of each node in both the X and Y directions of the matrix due to the approach of an object is converted to a set of voltages in the X and Y directions. These voltages are processed by circuitry to develop electrical signals representative of the centroid of the profile of the object, i.e., its position in the X and Y dimensions. Noise reduction and background level setting techniques inherently available in the architecture are employed. Pressure information is used to modify the scrolling speed.

Data supplied from the esp@cenet database - 12